## 1,获取用户中心数据

- 目的: 在渲染用户中心界面的时候,能够携带用户的数据
- 操作流程:
  - 1,给用户模型添加email\_active字段

```
1 class User(AbstractUser):
3 ...
4 email_active = models.BooleanField(default=False,verbose_name= "邮箱激活状态")
```

- 2,迁移
- 3.在类视图中渲染即可

```
class
   UserCenterView(MyLoginRequiredMiXinView):
 2
 3
       def get(self, request):
 4
            #1,组织数据
 5
            context = {
                "username":request.user.username,
 6
                "mobile":request.user.mobile,
 7
                "email":request.user.email,
 8
 9
    "email_active":request.user.email_active
10
            }
11
12
            #2,返回页面渲染
13
            return render(request,
   'user_center_info.html',context=context)
```

## 2,邮箱发送文档,测试

- 目的: 能够参考官方文档发送邮件,测试即可
- 操作流程:

#### ○ 1,配置邮件后端(dev.py)

```
1 #邮件配置
2 EMAIL_BACKEND =
  'django.core.mail.backends.smtp.EmailBackend' #
  指定邮件后端
3 EMAIL_HOST = 'smtp.163.com' # 发邮件主机
4 EMAIL_PORT = 25 # 发邮件端口
5 EMAIL_HOST_USER = 'jinghedeveloper@163.com' #
  授权的邮箱
6 EMAIL_HOST_PASSWORD = 'abcd1234' # 邮箱授权时获得的密码,非注册登录密码
7 EMAIL_FROM = '美多商城<jinghedeveloper@163.com>'
  # 发件人抬头
```

#### ○ 2,在终端中测试

```
In [1]: from django.core.mail import send_mail

In [2]: send_mail(subject='约吗?',message='今晚
小树
林',from_email='jinghedeveloper@163.com',recipient_list=['hejing@itcast.cn'])
```

### 3,邮件发送后端集成

- 目的: 能够通过代码的格式实现邮件发送
- 操作流程:
  - 1. 根据前端页面编写子路由

#### ○ 2,编写发送邮件类视图

```
class EmailSendView(MyLoginRequiredMiXinView):
2
       def put(self,request):
 3
           #1,获取参数
4
           dict data =
   json.loads(request.body.decode())
           email = dict_data.get("email")
5
6
7
           #2,校验参数
           #2.1 为空校验
8
           if not email:
9
10
               return
   http.HttpResponseForbidden("参数不全")
11
12
           #2.2 格式校验
           if not re.match(r'^[a-z0-9][\w\.\-
13
   ]*@[a-z0-9-]+(\.[a-z]{2,5}){1,2}$',email):
14
               return
   http.HttpResponseForbidden("邮件格式有误")
15
16
           #3,发送邮件
17
           send_mail(subject='约吗?',
18
                     message='今晚小树林',
19
    from_email=settings.EMAIL_FROM,
20
                     recipient_list=[email])
21
22
           #4,数据入库
23
           request.user.email = email
24
           request.user.save()
25
26
           #5,返回响应
```

```
27     return
http.JsonResponse({"code":RET.OK,"errmsg":"ok"
})
```

### 4,拼接验证链接

- 目的: 能够拼接加密的token链接, 发送给用户邮箱, 来激活用户邮箱
- 操作流程:
  - 1, 创建生成加密链接的方法(utils/email.py)

```
1 from django.conf import settings
   from itsdangerous import
   TimedJSONWebSignatureSerializer as
   TJSWSerializer
3
   #1,生成加密的url链接地址
4
5
   def generate_verify_url(user):
6
7
       #1,创建数据信息
       dict_data = {"user_id":user.id,
8
   "email":user.email}
9
       #2,创建TJSWSerializer对象
10
11
       serializer =
   TJSWSerializer(secret_key=settings.SECRET_KEY,
   expires_in=60*30)
12
13
       #3,加密
       token = serializer.dumps(dict_data)
14
15
16
       #4,拼接链接
       verify_url = "%s?token=%s"%
17
   (settings.EMAIL_VERIFY_URL,token.decode())
18
19
       #5,返回
20
       return verify_url
```

```
class EmailSendView(MyLoginRequiredMiXinView):
2
       def put(self,request):
 3
           #3,发送邮件
4
 5
           verify_url =
   generate_verify_url(request.user)
           send_mail(subject='美多商城邮箱激活',
6
7
                      message=verify_url,
8
    from_email=settings.EMAIL_FROM,
                      recipient_list=[email])
9
10
11
```

## 5,celery封装邮件发送

- 目的: 使用celery封装发送邮件的任务
  - 1,创建发送邮件的任务(celery\_tasks/email/tasks.py)

```
from django.core.mail import send_mail
   from django.conf import settings
2
   from celery_tasks.main import app
4
 5
   @app.task(bind=True,name="send_verify_url")
   def send_verify_url(self,verify_url,email):
6
7
       #1.发送短信
       result = -1
8
9
       try:
            result = send_mail(subject='美多商城邮箱
10
   激活',
11
                      message=verify_url,
12
    from_email=settings.EMAIL_FROM,
13
                      recipient_list=[email])
14
       except Exception as e:
15
            result = -1
16
17
       #2,判断结果
       if result == -1:
18
```

```
print("重试中....")
self.retry(countdown=5,max_retries=3,exc=Exception("发送邮件失败啦!!"))
```

○ 2,添加任务到celery中

```
1 app.autodiscover_tasks([..."celery_tasks.email.
    tasks"])
2
```

○ 3,在类视图中是发送

```
def put(self,request):
1
2
 3
    send_verify_url.delay(verify_url,email)
   #celery发送邮件
4
 5
           #4,数据入库
6
            request.user.email = email
7
8
            request.user.save()
9
10
           #5,返回响应
11
           return
   http.JsonResponse({"code":RET.OK,"errmsg":"ok"
   })
```

## 6.邮箱发送验证

- 目的: 能够校验地址中的token, 激活用户的邮箱
- 操作流程:
  - 1.编写解密token的方法(utils/email.py)

```
1 #2,加密token
2 def decode_token(token):
3 #1,创建TJSWSerializer对象
```

```
5
       serializer =
   TJSWSerializer(secret_key=settings.SECRET_KEY,
   expires_in=60 * 30)
 6
 7
       #2,解密数据
 8
       try:
           dict_data = serializer.loads(token)
 9
10
11
           user_id = dict_data.get("user_id")
12
13
           user = User.objects.get(id=user_id)
14
15
       except Exception:
16
            return None
17
18
       #3,返回user
19
       return user
```

○ 2.根据链接地址,编写子路由(user/urls.py)

```
1 | url(r'^emails/verification/$',views.EmailActive
View.as_view()),
```

○ 3,类视图中修改邮箱的激活状态(uisers/views.py)

```
class EmailActiveView(View):
1
2
       def get(self,request):
           #1,获取token参数
 3
4
           token = request.GET.get("token")
 5
6
           #2,校验参数
7
           if not token:
8
               return
   http.HttpResponseForbidden("token丢失")
9
10
           user = decode_token(token)
11
12
           if not user:
13
               return
   http.HttpResponseForbidden("token过期")
14
15
           #3,数据入库(修改邮箱的激活器状态)
```

```
user.email_active = True
user.save()
18
19 #4,返回响应(重定向到个人中心)
return redirect('/info')
```

## 7,渲染收货地址界面

- 目的: 能够定义类视图渲染收货地址页面
- 操作流程:
  - 1.根据前端html地址,编写子路由(users/urls.py)

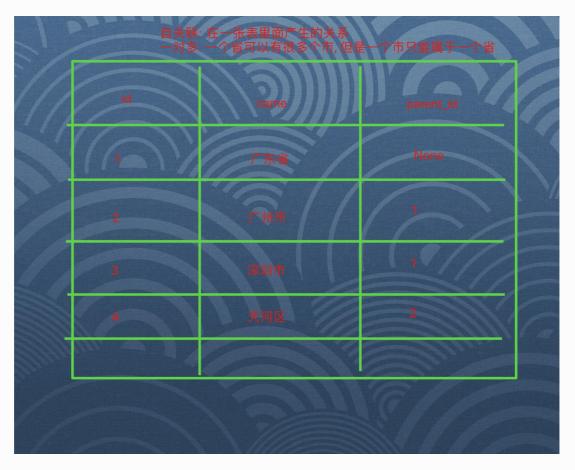
```
1 | url(r'^addresses/$',views.AddressView.as_view()
),
```

○ 2,渲染页面(users/views.py)

```
class AddressView(MyLoginRequiredMiXinView):
    def get(self,request):
        return
    render(request,'user_center_site.html')
```

## 8,区域模型类,测试数据

- 目的: 能够理解区域模型类的设计结构
- 操作流程:
  - 1,结构图解



#### ○ 2.模型类编写

```
from django.db import models
2
   class Area(models.Model):
 3
 4
       name =
   models.CharField(max_length=20,verbose_name="
   区域名")
       parent =
 5
   models.ForeignKey('self', related_name="subs", o
   n_delete=models.SET_NULL,null=True,blank=True,
   verbose_name="上级区域")
 6
 7
       class Meta:
           db_table = "tb_areas"
 8
9
       def __str__(self):
10
            return self.name
11
```

#### ○ 3,迁移,添加测试数据

#### 注意点:

○ 一查多: area.subs

○ 多查一: area.parent

```
1 | In [1]: from areas.models import Area
2
   In [2]: city = Area.objects.get(name='广州市')
3
4
5
  In [3]: city
  Out[3]: <Area: 广州市>
6
7
  In [4]: city.parent
  Out[4]: <Area: 广东省>
10
11 | In [5]: city.subs.all()
12 Out[5]: <QuerySet [<Area: 荔湾区>, <Area: 越秀
   区>, <Area: 海珠区>, <Area: 天河区>, <Area: 白云
   区>, <Area: 黄埔区>, <Area: 番禺区>, <Area: 花都
   区>, <Area: 南沙区>, <Area: 从化区>, <Area: 增城
   区>]>
13
14 In [6]:
15
```

## 9,区域类视图

● 目的: 可以编写类视图,获取对应的区域信息

#### ○ 1,子路由(areas/urls.py)

```
1  from django.conf.urls import url
2  from . import views
3
4  urlpatterns = [
5    url(r'^areas/$',views.AreaView.as_view())
6  ]
```

#### ○ 2,类视图(areas/views.py)

```
class AreaView(View):
2
       def get(self,request):
 3
           #1,获取参数area_id
4
           area_id = request.GET.get("area_id")
 5
           #2,判断area_id是否有值
6
7
           if area_id: #(市,区)
8
9
               #3.1 获取上级区域
10
                area =
   Area.objects.get(id=area_id)
11
12
               #3.2 获取上级区域的子级区域
                sub_data = area.subs.all()
13
14
15
                #3.3 数据转换
16
                sub_data_list = []
                for sub in sub_data:
17
                    sub_dict = {
18
19
                        "id":sub.id,
20
                        "name": sub.name
21
                    }
22
                    sub_data_list.append(sub_dict)
23
               #3.4 数据拼接
24
25
                context = {
26
                    "code": RET.OK,
                    "errmsg":"ok",
27
28
                    "sub_data":{
29
                        "id":area.id,
                        "name": area. name,
30
```

```
"subs":sub_data_list
31
32
                    }
33
                }
34
35
                return http.JsonResponse(context)
36
37
            else:#(省)
38
39
                #4.1 查询数据
40
                areas =
    Area.objects.filter(parent__isnull=True).all(
41
                #4.2 数据转换
42
                areas_list = []
43
44
                for area in areas:
                    area_dict = {
45
                         "id":area.id.
46
                         "name":area.name
47
48
                    }
49
                    areas_list.append(area_dict)
50
51
                #4.3 拼接数据
52
                context = {
                    "code":RET.OK,
53
                    "errmsg":"OK",
54
55
                    "province_list":areas_list
56
                }
57
58
                return http.JsonResponse(context)
59
```

### 10,定义用户地址模型类

- 目的: 能够理解用户收货地址的定义格式
  - 1, 定义地址模型类(11个字段)

```
1 class Address(BaseModel):
2 """用户地址"""
3 user = models.ForeignKey(User,
on_delete=models.CASCADE,
related_name='addresses', verbose_name='用户')
```

```
title = models.CharField(max_length=20,
4
   verbose_name='地址名称')
       receiver = models.CharField(max_length=20,
5
   verbose_name='收货人')
       province = models.ForeignKey('areas.Area',
6
   on_delete=models.PROTECT,
   related_name='province_addresses',
   verbose_name='省')
       city = models.ForeignKey('areas.Area',
7
   on_delete=models.PROTECT,
   related_name='city_addresses',
   verbose_name='市')
       district = models.ForeignKey('areas.Area',
8
   on_delete=models.PROTECT,
   related_name='district_addresses',
   verbose_name='⊠')
       place = models.CharField(max_length=50,
9
   verbose_name='地址')
       mobile = models.CharField(max_length=11,
10
   verbose_name='手机')
       tel = models.CharField(max_length=20,
11
   null=True, blank=True, default='',
   verbose_name='固定电话')
       email = models.CharField(max_length=30,
12
   null=True, blank=True, default='',
   verbose_name='电子邮箱')
       is_deleted =
13
   models.BooleanField(default=False,
   verbose_name='逻辑删除')
14
15
       class Meta:
           db_table = 'tb_address'
16
17
           verbose_name = '用户地址'
           verbose_name_plural = verbose_name
18
           ordering = ['-update_time']
19
20
```

```
1 class User(AbstractUser):
2 ...
3 default_address =
models.ForeignKey('Address',
related_name='users', null=True, blank=True,
on_delete=models.SET_NULL, verbose_name='默认地
址')
4
```

○ 3,迁移

### 11,地址数据渲染

● 目的: 可以根据前端html需要的数据, 在后端进行组织,拼接返回

```
class AddressView(MyLoginRequiredMiXinView):
 1
 2
        def get(self,request):
 3
 4
            #1,获取用户所有的地址
 5
            addresses =
    request.user.addresses.filter(is_deleted=False)
 6
 7
            #2,数据拼接
 8
            addresses_list = []
            for address in addresses:
 9
10
                address_dict = {
                    "id":address.id,
11
                    "title":address.title.
12
13
                    "receiver":address.receiver,
                    "province":address.province.name,
14
15
                    "city":address.city.name,
16
                    "district":address.district.name,
17
                    "place":address.place,
                    "mobile":address.mobile.
18
                    "tel":address.tel,
19
20
                    "email":address.email,
21
                }
22
                addresses_list.append(address_dict)
23
24
            context = {
25
                "addresses":addresses_list,
```

```
"default_address_id":request.user.default_address_id

id

#3,返回渲染页面

return
render(request,'user_center_site.html',context=context)
```

# 12,新增地址

- 目的:能够通过前端携带的数据,创建地址对象
- 操作流程:
  - 1, 根据js代码编写路由(users/urls.py)

```
1 | url(r'^addresses/create/$',views.AddressCreateV
iew.as_view()),
```

○ 2.创建地址对象,入库(users/views.py)

```
class
 1
   AddressCreateView(MyLoginRequiredMiXinView):
       def post(self,request):
 2
 3
            #1,获取参数
 4
            dict_data =
    json.loads(request.body.decode())
            title = dict_data.get("title")
 5
            receiver = dict_data.get("receiver")
 6
 7
            province_id =
   dict_data.get("province_id")
            city_id = dict_data.get("city_id")
 8
            district_id =
 9
   dict_data.get("district_id")
            place = dict_data.get("place")
10
            mobile = dict_data.get("mobile")
11
            tel = dict_data.get("tel")
12
13
            email = dict_data.get("email")
14
```

```
15
           #2,校验参数
16
           if not
   all([title,receiver,province_id,city_id,distri
   ct_id,place,mobile,tel,email]):
17
                return
   http.HttpResponseForbidden("参数不全")
18
19
           #3,数据入库
           dict_data["user"] = request.user
20
           address =
21
   Address.objects.create(**dict_data)
22
23
           #4.返回响应
24
           address_dict = {
               "id": address.id,
25
                "title": address.title,
26
27
                "receiver": address.receiver,
                "province": address.province.name,
28
                "city": address.city.name,
29
                "district": address.district.name,
30
                "place": address.place,
31
                "mobile": address.mobile,
32
                "tel": address.tel,
33
34
                "email": address.email,
35
           }
36
            return
   http.JsonResponse({"code":RET.OK,"address":add
   ress_dict})
```